

19970915.qrp v00_n849.qrs.970915

>From ???@??? Tue Sep 16 00:05:35 1997
Date: Mon, 15 Sep 1997 19:03:29 EDT
Subject: QRP-L digest 849
Message-Id: <97Sep15.190605edt.35017-31470+172@fidoii.cc.Lehigh.EDU>

QRP-L Digest 849

Topics covered in this issue include:

- 1) [26771] Re: Vertical Antenna project - help
by "J. Skalski" <jskalski@acsu.buffalo.edu>
- 2) [26772] Re: Vertical Antenna project - help
by Joe Gervais <vole@primenet.com>
- 3) [26773] Silver contacts (not qso's)
by Jim W7LS <w7ls@brigadoon.com>
- 4) [26774] RE: Vertical Antenna project - help
by "Larry Cruise" <Larry.Cruise@MCI.Com>
- 5) [26775] nw40 hints?
by "Rick LaBanca" <rickl@loa.com>
- 6) [26776] fs: Ten-Tec Argosy \$350
by "Robert Andrew Bell" <rbell@uniserve.com>
- 7) [26777] Clearing the air
by laura halliday <ve7ldh@direct.ca>
- 8) [26778] Folded Unipole Antenna
by "Larry Cruise" <Larry.Cruise@MCI.Com>
- 9) [26779] Scheduled QSOs - Summary
by Bob Patten <n4bp@shadow.net>
- 10) [26780] FS: Ten Tec Century 21
by "William C. Robbins" <billrobb@net-link.net>
- 11) [26781] Win some, lose some...
by "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
- 12) [26782] QRP SSB
by "David Maliniak" <dmaliniak@penton.com>
- 13) [26783] W1FB Pixie II Transceiver
by adams@chuck.dallas.sgi.com (Chuck Adams)
- 14) [26784] More Power on Norcal 40-A?
by Marty <mlp@flash.net>
- 15) [26785] Re: More Power on Norcal 40-A?
by "Phil, K6LS" <k6ls@qsl.net>
- 16) [26786] More Power on Norcal 40-A?
by "W. D. Lindsey" <70511.3041@compuserve.com>
- 17) [26787] IARU BEACON LISTING
by gregoire@endor.com
- 18) [26788] E-mail !
by ROYGREGSON@aol.com
- 19) [26789] Another qrp-l'er in print!

- by jeverhar@camden.lmco.com
- 20) [26790] Re: Traansistor "house Numbers"?
by Ed Loranger <we6w@qsl.net>
- 21) [26791] RADIO EXPO 97
by Bob Reynolds <breyold@sigg.com>
- 22) [26792] DSP boards
by laura halliday <ve7ldh@direct.ca>
- 23) [26793] QRP-ARCI in my mailbox
by Joel Malman <malman@BBN.COM>
- 24) [26794] MRE's
by Scott Bauer <ke3nv@erols.com>
- 25) [26795] Re: MRE's
by Bob Hightower <ki7mn@dancris.com>
- 26) [26796] Inductor Color Code
by danjt@ix.netcom.com
- 27) [26797] re: Winter projects
by "Rich Dailey, KA8OKH" <ka8okh@som-uky.campus.mci.net>
- 28) [26798] re: a few days later...qsl
by "Rich Dailey, KA8OKH" <ka8okh@som-uky.campus.mci.net>
- 29) [26799] Young hams
by "Bob Kellogg" <ae4ic@nr.infi.net>
- 30) [26800] Re: MRE's
by Michael Fletcher <fletch@swlink.net>
- 31) [26801] New NorCal Kit
by Paul Harden <pharden@aoc.nrao.edu>
- 32) [26802] Re: Another qrp-l'er in print!
by Chris Trask <ctrask@primenet.com>
- 33) [26803] Re: MRE's
by Chris Trask <ctrask@primenet.com>
- 34) [26804] ARKANSAS NET
by kreinbd@ccgate.dl.nec.com (David Kreinberg)
- 35) [26805] MRE: defined
by Jim W7LS <w7ls@brigadoon.com>
- 36) [26806] New NorCal Kit
by Jerry Parker <jparker@fix.net>
- 37) [26807] NorCal Pacificon Building Contest
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
- 38) [26808] Source for: The Complete DXer
by KG0ZT <pugrad@millcomm.com>
- 39) [26809] HB Electronics E-Mail Address change
by n1pwu@juno.com (Robert K Berlyn)
- 40) [26810] Re: Young hams
by Robert Bayha <rbayha@ix.netcom.com>
- 41) [26811] Nice Surprise
by n4js@amsat.org
- 42) [26812] Inductor color code info
by danjt@ix.netcom.com
- 43) [26813] chat reflector

by Randy Hargenrader <randyh@harksystems.com>
44) [26814] My QRP day, so far...
by Joel Malman <malman@BBN.COM>
45) [26815] Re: DSP boards
by Bob Okas <vintage@best.com>
46) [26816] HOW TO CONTEST?
by ARDUJENSKI@aol.com

Date: Sun, 14 Sep 1997 19:30:35 -0400 (EDT)
From: "J. Skalski" <jskalski@acsu.buffalo.edu>
To: K5BDZ@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [26771] Re: Vertical Antenna project - help
Message-ID: <Pine.GS0.3.96.970914192820.21447B-100000@callisto.acsu.buffalo.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hello.

Be careful when connecting antenna grounds to metal that is embedded in concrete.....

When towers are "planted" it is common practice to keep the REBAR from contact with the ground. It is floated in the concrete.

It has a nasty habit of blowing up the concrete when hit by lightning!!!

73,

Jim N2GO
The Buffalo QRP CONNECTION
ARCI #9013 QRP-L #381
Life member ARRL
jskalski@acsu.Buffalo.EDU

Date: Sun, 14 Sep 1997 16:39:19 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: kelman@dialnet.net
Cc: qrp-l@Lehigh.EDU
Subject: [26772] Re: Vertical Antenna project - help
Message-ID: <199709142339.QAA04869@usr02.primenet.com>

Howdy,

Kelly (WB0WQS) wrote:

>

> I just picked up a Telex/Hy-gain DX-88 Vertical. The question is... What
> kind of REALISTIC Ground System do I need for this ground mounted antenna?

Depends entirely on what you wish to do with it. :-) More radials are generally better, though the data I found when researching my HB vert (along w/ QRP-L help) indicated that the largest improvement happens with 16 radials. The "benefit curve" starts to hit an asymptote at 32 radials, if you look at a chart. So I put down 34 'cuz that's how much wire I had. ;-)

With that setup I've worked 16 new countries in the last month, plus 48 states Two-way QRP in the past 8 months. All QRP of course. And I'm not exactly a "hot op", so the antenna is carrying the weight here.

Not sure if the DX-88 has any quirks about it that might affect the approach. I'm making the (big) assumption that it's the same as a generic vert.

> Do I need radials that are quarter wave lengths for each band?

For ground mounted, just put down as many as you can, and as long as you can make 'em. I know it's not the nice clean formula that we tend to prefer, but it's true. For ground-mounted, don't worry if they're 1/4-wave, 1/8-wave or some totally odd value. Repeat: "As many as I can fit, and as long as I can make them." Raised radials are a different matter....

(Note: I've read that there's not much point in making the radials any longer than the radiating element. Haven't verified though.)

> I have a bunch of scrap insulated wire laying around here. Can I use
> that, or should I use bare wire?

As long as the wire is still conductive. :-) I used coated wire for my ground system, but only to help the wires survive the occasional shovel strike while I'm doing yard work. In some soils I suppose the coating may prevent the wire from corroding into doom, but that's pure speculation on my part.

And I see you bought it just in time for Fox season. Shrewd ham. :-)
Good luck!

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"Veni Vertical Vamos - I came, I radiated, I left". -AB7TT

Date: Sun, 14 Sep 1997 16:44:16 -0700 (PDT)
From: Jim W7LS <w7ls@brigadoon.com>
To: qrp-1@Lehigh.EDU
Subject: [26773] Silver contacts (not qso's)
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi, guys. I'll need a buck folded into a SASE for each set of 4 contacts, if you please. Sounds like I'll need to get a bunch. You guys are hungry! I'll wait for more to sign on before going out to find more.

73 de Jim, W7LS

P.S. I'm now ok in the Callbooks. At least, the new ones that show me in the town of Duvall. Here's the address:

Jim Hossack
15221 342nd Ave, NE
Duvall, WA 98019

dit dit

Date: Sun, 14 Sep 1997 19:20:07 -0000
From: "Larry Cruise" <Larry.Cruise@MCI.Com>
To: "'QRP-L'" <qrp-1@Lehigh.EDU>
Subject: [26774] RE: Vertical Antenna project - help
Message-ID: <01BCC146.BD9102C0@lcruise.ns.mci.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable

Hi Kelly,

For a minimal system the number they recommend will do the job. I have =
had good success with such an arrangement and have measured about 6db (1 =
S-Unit) improvement over just a ground rod on 80 Meters with a similar =
radial system. In the ARRL Antenna Handbook in chapter 3 "The effects =

of ground" there is a chart showing different ground system =
configurations and how much improvement you might expect. The poorer =
your local ground conditions the more important the radial system. In =
case you don't have the Antenna Handbook here is an abbreviated chart:

Number of radials	16	36
Length of each radial in wavelengths	0.1	0.15 =20
Spacing in degrees	22.5	10.0

NOTE: Make your radial lengths for the lowest band you will use.

I am an avid vertical user and have tried various configurations. I am =
presently using a Folded Unipole design fed with open-wire on all bands. =
My next project is an elevated radial system, but that is a story for =
another time.

-72 Larry (AA5TA)=20

In the high plains of West Texas where you have no trees for horizontal =
wire antennas. :-)

-----Original Message-----

From: Kelly Ellison [SMTP:kelman@dialnet.net]
Sent: Sunday, September 14, 1997 10:38 PM
To: Low Power Amateur Radio Discussion
Subject: Vertical Antenna project - help

Hi All,

I just picked up a Telex/Hy-gain DX-88 Vertical. The question is... What
kind of REALISTIC Ground System do I need for this ground mounted =
antenna?

The manual says 16 radials that are 14 ft long.=20

>SNIP<

Date: Sun, 14 Sep 1997 22:45:25 -0400
From: "Rick LaBanca" <rickl@loa.com>
To: "Qrp List" <qrp-l@Lehigh.EDU>
Subject: [26775] nw40 hints?
Message-ID: <199709150242.WAA122926@nss2.CC.Lehigh.EDU>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

I just finished my nw40 from Emtech. I nice little rig! I am once again becoming active. I missed when heath went out and kits were scarce. It seemed like the reason for hamming went away!

Well it's good to see kits coming back via qrp! I expected something not the same as heathkit quality but I was surprised. Heath never helped you tune your rig! Roy was really great, now I am spoiled.

Anyway, if anyone else here has the rig, I have a question about the variable bandwidth.

If I tune the bfo so I get only one sideband and a good tone, the variable bandwidth when narrowed pushes me around in frequency to a very high (almost inaudible) pitch. If I then move the bfo down and keep doing this, I can get the bandwidth on max narrow witha good tone.

That works great, but I now have the bfo set where two sidebands come thru when the bandwidth is wide. But I pick this over no vbt, as it works pretty well narrow!

Anyone have ideas or mods for tweaking this to work better? I sorta attenuates the sig a bit too, and i have to turn up the audio, but that will make the notch filter squeal. Any pointers are appreciated!

Rick LaBanca kaleze

Date: Sun, 14 Sep 1997 21:01:19 -0700
From: "Robert Andrew Bell" <rbell@uniserve.com>
To: <qrp-1@Lehigh.EDU>
Subject: [26776] fs: Ten-Tec Argosy \$350
Message-ID: <E0xASQC-0001nX-00@mail.uniserve.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

I have for sale a Ten-Tec Argosy hf tranceiver for sale.It has the 1.8khz ssb filter,500 hz cw audio filter and noise blanker options installed.It

comes with the hand mike, manual and power cable and is in full working condition. There are a few scratches on the top panel but the front panel is scratch free. I will sell for \$350 US.

rbell@uniserve.com
Vancouver, BC, Canada.

Date: Sun, 14 Sep 1997 22:19:42 -0700
From: laura halliday <ve7ldh@direct.ca>
To: qrp-l@lehigh.edu
Subject: [26777] Clearing the air
Message-ID: <341CC56E.5EFED8FD@direct.ca>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I hope...

If anybody was offended by my earlier comments, please accept my apologies.

The line between friendly curiosity and feeling like you're being stared at is a fine one, and a subjective one...

I hope my being different from most of the list (I can think of about a dozen criteria, right off the bat) can continue to be a strength and source of inspiration, and not a liability.

Thank you for your patience and understanding. We now return you to your regularly scheduled QRP-L.

...laura

Date: Mon, 15 Sep 1997 00:24:39 -0000
From: "Larry Cruise" <Larry.Cruise@MCI.Com>
To: "'QRP-L'" <qrp-l@Lehigh.EDU>
Subject: [26778] Folded Unipole Antenna
Message-ID: <01BCC16E.0BF68580@lcruise.ns.mci.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: quoted-printable

Hi Kevin,

Looks like you are about to try something I have been wanting to do, but = haven't got around to it as yet. I too have one of the SLV poles.

I first became aware of the Unipole some years ago when an article = appeared in Ham Radio Magazine (IMHO the best technical ham magazine = ever) on this antenna. What got my attention was the list of attributes: =

- o Broadband on all frequencies, 1.8 through 30Mhz
- o Easily tuned
- o Fully effective without ground radials
- o Without critical dimensions
- o Simple, inexpensive, and easily erected by one man
- o Space saving
- o DC grounded=20
- o Adaptable to your tower

I built one to see how it worked and work it did. I ran test on 40 = meters with a friend (W5VB0) who lived about a mile away from me and was = using a 1/4 wave vertical with lots of radials. The unipole appeared to = be working better then his 1/4 vertical. According to the article = "Vertical Antennas: New Design and Construction Data" p2 The ARRL = Antenna compendium V2 measurements made with unipoles showed a 30% = increase in field strength over a standard 1/4 wave vertical. = Interesting.

A unipole is a experimenters delight when fed with open-wire feeder as = the dimensions are not critical. I have built three of various sizes, = the largest being 24 feet high. This is considerably smaller then the = one described in the Ham Radio article which was 40 feet tall. I had = excellent results on 40 Meters and above. Obviously if you want a good = signal on 160 and 80 you need to make a larger version then what I am = presently using.

Lets see if I can describe to you what my mini-unipole looks like. = Picture an 1.25 inch 18 foot pole that is grounded. At the 9 foot level = I have two 10 foot 1/2 inch electrical PVC pipes attached at right = angles to each other. At the top of the pole I have four wires = electrically connected. These wires come off the top at an angle and one = each go through a hole drilled near the ends of each of the PVC pipes. = After going through these holes the wire folds back toward the vertical = mast as it comes down near the bottom of the grounded pole. At this = point the four wires are joined and connected to a standoff. Picture = these wires as two diamonds at right angles to each other with the 18 =

foot pole at the center. The top of the diamonds are connected to the =
top of the vertical pole. The bottom of the diamonds are connected =
together on a standoff. The open-wire feed connects between the ground =
and where the four wires are joined at the standoff at the bottom of the =
vertical pole. Ok now on the very top I have a 8 foot capacity hat made =
of two section of eight foot 1/4 inch aluminum tubing. The antenna is =
fed with about 100 feet of open-wire line and a 4:1 balun at the shack =
end.

I have had excellent results without radials on 40 meters and above =
running QRP. Radials would improve things, but it works well without =
them. I want to try an elevated radial system with this antenna and see =
what kind of improvement I can get on 80 Meters.

Let me know how you make out with your test as I want to do something =
similar for a portable antenna. If you want more info on the unipole =
check out these references:

o Ham Radio magazine May 1979 p38 "Folded Umbrella Antenna" by the late =
John M. Haerle WB5IIR.

o The Amateur Radio Vertical Antenna Handbook by Paul H. Lee N6PL CQ =
publication.

o Unipole Antennas- Theory and Practical Applications by Ron Nott, K5YNR =
The ARRL Antenna Compendium V2 p36 =09

-72 Larry (AA5TA)

Hi Larry,

Please let me know more about your folded unipole all-band vertical. I =
am
going to experiment with a raised vertical. I bought PVC pipe for the
raised radials, going to full-wave of wire for 20M (or 40M if I go with
that config). Going to cut 1/2 wave radials, cut the insulation at the
center of each and connect both wire to shield, or maybe ladder-line for
multi-band performance.

Been reading alot about raised radials and some claim that if the =
radials

are raised 5% over avg ground 4 1/4 wave radials are as efficient as 120 ground mounted. Higher for lossy ground, lower over good ground.

Going to cut PVC into two 4' pieces and drive into ground. That will = raise the radials at least 3.5', enough for 40M and better for 20M. All this = is for a portable setup. Have one of the 20' fiberglass poles, so this = will work well for 20M and up. I want to make a coil and maybe base or semi-center load it for 30M and 40M. Saw a very good article in QST = couple of issues ago about homebrew inductors. Same author wrote a good = article about homebrew traps few years back.

I guess all this babbling means I have to keep at it, still in quest for good efficient ant to complement my inverted-vee while working portable.

72 Kevin N2T0
kfglynn@prodigy.net

Date: Mon, 15 Sep 1997 02:02:36 -0400 (EDT)
From: Bob Patten <n4bp@shadow.net>
To: QRP-L Reflector <qrp-l@Lehigh.EDU>
Subject: [26779] Scheduled QSOs - Summary
Message-ID: <Pine.SOL.3.96.970915014808.25233A-100000@goliath>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Had a very busy weekend and couldn't do the detailed summary that I intended to. I saved about 25 responses from those who stated their opinions on whether or not "scheduled QSOs" should be allowed in qualifying for awards such as W.A.S. Apparently, I am behind the times. Scheduling QSOs for awards IS widely accepted. But many who stated that, while the practice was acceptable, preferred not to do it themselves. I will move myself into that category. Also pointed out was the special case of VHF & UHF awards. For UHF awards, for example the "miles per watt" ones, schedules are mandatory. You must aim your highly directional antenna at a known target in order to make contact. And on VHF, you are still very much at the mercy of

propagation, so even a scheduled QSO can be a real challenge.
I was only flamed by one individual who told me I was "full of crap".
But, in my own words from my original posting, "I may be all wet, but...".
I stand corrected on the acceptance of scheduled QSOs for awards and hope
I didn't offend anyone else with my initial posting on the subject.

73,

Bob Patten, N4BP (0 0) Plantation, FL
-----o00o-()-o00-----

E-Mail: n4bp@shadow.net
Web Page: <http://www.shadow.net/~n4bp/n4bp.htm>
Brass Pounder BBS: (954) 472-7715

Date: Mon, 15 Sep 1997 09:19:13 -0400
From: "William C. Robbins" <billrobb@net-link.net>
To: qrp-l@Lehigh.EDU
Subject: [26780] FS: Ten Tec Century 21
Message-ID: <199709151319.JAA10096@serv01.net-link.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I have a Ten Tec Century 21 in excellent condition.

\$225 plus shipping

Bill

Heathkit Collector
WA8CDU formally WN8CDU

Date: Mon, 15 Sep 1997 09:34:06 -0400 (EDT)
From: "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
To: qrp-l <qrp-l@lehigh.edu>, eax@w3eax.umd.edu
Subject: [26781] Win some, lose some...
Message-ID: <Pine.LNX.3.95.970915092558.31269A-100000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Worked WZ4L - TN to MD - on 40m, mobile, Sat. night. Turns out HE was QRP, too, using a TT 1340 xcvr he'd built.

Now, for the <<almost>> QRP category...yesterday, I heard FR5DD calling CQ at 1300z (9 a.m.) and he had JUST started calling. I returned but was too weak, at 3 and then even at 50 watts.

"et le pile-up etait tres, tres grand"

Anyway, spurred on by a solar flux of > 110 and the prayer that conditions today would mimic those of yesterday, I hopped in the car at 1150z and started on my way to work. On 14.018, there he was again, starting to call CQ USA LP. I replied at 3 watts, but only got a "SRI, NO COPY."

Turning from east to south (directivity being in the direction I'm driving), I took the initiative to say, "I'm a DXer, dammit" and cranked it ALLLLL the way up to 30 watts, as I'm stuck at 99 countires confirmed on CW, and I REALLLLY want that CW endorsement.

Got him, first call, and got a 429 (would have been 409 at 3w, i.e. no QS0). Sometimes it helps to have the li'l 10 db linear (2 s-units!).

P.S. - finally got my card from PZ1DY!

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 80 grids worked on 8 watts *** HF 140 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
*** 301-549-1022 h / 301-982-1015 w ** Life is one big hamfest ***

Date: Mon, 15 Sep 1997 10:08:22 -0400
From: "David Maliniak" <dmaliniak@penton.com>
To: qrp-l@lehigh.edu
Cc: njqrp@njqrp.org
Subject: [26782] QRP SSB
Message-ID: <85256513.004C6247.00@mail.penton.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII

There was a thread recently concerning the subject...does it work or doesn't it?

Well, I found myself with a little time on my hands yesterday on an absolutely glorious Sunday afternoon in northern New Jersey. So I decided

to stick my 20/40-meter Bic Backpacker fan dipole in the antenna tree in my back yard. That took some doing (don't ask...foibles with the s----s---, etc. and so on) but finally I had at least a 20-meter dipole up in inverted-vee style with the center insulator at about 30 feet and oriented broadside to the east and west.

There was a decent amount of activity in the CW part of the band but what really got my attention was the European DX contest going gangbusters on SSB (this is where the USB/LSB and range-switching mods in my Sierra really come in handy). So out came the Cascade for a little SSB action.

Don't have the log with me here at work, but in less than an hour of operating, I made a dozen contacts with about six or seven European countries. These included Germany, Italy, Czech Republic, Yugoslavia, Bulgaria, and a couple others I'm forgetting. Some of these contacts took some doing as I think the European operators were being pounded with QRM. Others were easy one-call contacts. Of course, whether the contact took 5 seconds or 2 minutes to complete, I was 59. :-). I get about 5W output with my Cascade from a 12V gel cell. I'd like to take a moment here to thank the European contest ops...some of them exhibited great patience as we fought the QRM (I should say *they* fought the QRM) so they could pull out my call, signal report and serial number.

For me, QRP SSB is a lot of fun. Yeah, it can be frustrating at times. If the band is relatively quiet, I don't always bother. You can sit and call CQ forever and get nothing for it. But in the big contests, it can be a ball.

72 David N2SMH
Glen Rock, NJ

Date: Mon, 15 Sep 1997 15:18:27 +0100
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: qrp-1@lehigh.edu
Subject: [26783] W1FB Pixie II Transceiver
Message-ID: <199709151418.PAA09044@chuck.dallas.sgi.com>

Gang,

This was a project under construction for some time and I have been awaiting the boards. Well, this morning I received a couple of

prototype boards from FAR Circuits.

Now, before everyone goes ape over this project, hold on for a few days and let me build up the 80M and 40M versions and check them out. I have to double check the component values through experimentation etc. and make sure the circuit and board layout works as advertised.

Charles Ott, K5HJ, did the work on the board layout and did an excellent job and Fred at FAR Circuits has the board ready to go, if we don't find any mistakes or changes. Fred's price on the boards in the note that I got from him is going to be \$4.00 plus \$1.50 shipping. Now don't rush out yet and order a board, 'cuz they haven't been checked out and I need to enlarge a schematic and board layout so that he can send it out with the board, so wait at least 10 days or until I post that the project is ready to go.

Several individuals have sent me what they think are component error values in the SPRAT article and I will be checking those out and I'll post to the group, change on the web page, send to Doug DeMaw and Rev. George.

I'll do the 40M version first and then the colorburst frequency on 80M as I figure these will be the two most popular versions and the crystals are easy to find. I also have to check that a 30M version will even be worth it as I have a doubt that the receiver will have enough sensitivity and gain, but you never know.

So, stay tuned for progress reports the next couple of days. I'm through traveling for the year and should be able to get back to the workbench.

For those who don't know about the Pixie genealogy, check your back issues of SPRAT and QRPP. And I think my web page has all the stuff, but will check it again to be sure.

dit dit es tn timer

--

Chuck Adams K5FO CP-60 adams@sgi.com

<http://reality.sgi.com/adams/index.html>

WIMPS: Qs=063 30m=56 17m=7 12m=0 States=28/05/00 DX=05/02/00 QSLs=025

Date: Sat, 13 Sep 1997 00:04:40 -0500

From: Marty <mlp@flash.net>

To: qrp-l@Lehigh.EDU

Subject: [26784] More Power on Norcal 40-A?

Message-ID: <341A1EE8.7286@flash.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I know this is sort of anti-QRP, but since I'm a relatively new operator I'd occasionally like to put out a little more power than my NorCal 40A does now.

Can anyone point me to a way to boost the power up at least a little either internally to the 40A or with an external power amplifier?

Thanks,

Marty, N5SXV

Date: Mon, 15 Sep 1997 09:22:45 -0600
From: "Phil, K6LS" <k6ls@qsl.net>
To: mlp@flash.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [26785] Re: More Power on Norcal 40-A?
Message-ID: <341D44B5.3893@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Marty wrote:

>
> I know this is sort of anti-QRP, but since I'm a relatively new operator
> I'd occasionally like to put out a little more power than my NorCal 40A
> does now.

Personally I dont think that your rig needs more power out, with a 2 watt output average (my quess for the 40A) this should be enough to do plenty.
There are plenty of operators who have worked WAS, DXCC and the like with alot less!

I would instead suggest that you work on your 'technique', this may take some time, but you will become a better operator in the long run. The main thing you will need to learn is to be patient. There is an excellent book that I will recomend: The Complete DXer, by W9KNI

(recent topic on this list) I would be willing to bet money that you will see an improvement in your QSO rate if you follow some of the examples in the book.

This is not meant to be negative, nor dissuade you from your quest for a power boost, only to show that there is an alternative! :-)

There is an 'old' (?) saying (non suggestive, mind you ;-)) :

"Too many people try to make up for lack of skill with more power!"

--

73 de Phil, K6LS/0
QRP-L #612 NorCal #824
CQC #471 ARCI #8866
k6ls@qsl.net <or> k6ls@amsat.org
DM79or, Arapahoe County, Colorado
ITU zone 7, CQ zone 4
<http://www.qsl.net/k6ls>

Date: Mon, 15 Sep 1997 12:00:29 -0400
From: "W. D. Lindsey" <70511.3041@compuserve.com>
To: "INTERNET:mlp@flash.net" <mlp@flash.net>
Cc: QRP-L Discussion Group <QRP-L@lehigh.edu>, "W.D. (Doc) Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [26786] More Power on Norcal 40-A?
Message-ID: <199709151204_MC2-2085-D510@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Marty:

I will join the many others who say you can do plenty with only 2 watts out. Chuck Adams K5FO made WAS with his 2-watt Explorer. Took him some time, but he would likely say it was worth it. In fact, I actually heard him QSO Jim AL7FS for his last state!

What I personally am doing is working on my antennas, which are "okay" but not the best I can do at my QTH. And I am referring to simple wire antennas and verticals in my situation. Am also improving my CW capability, which makes the difference in many DX and contest situations.

Anyway, good luck and I hope to run into you on the air sometime!

72/73,

--Doc/K0EVZ qrp-l 861

Date: Mon, 15 Sep 97 11:44:31 PDT
From: gregoire@endor.com
To: Low power amateur radio discussion <qrp-l@lehigh.edu>
Subject: [26787] IARU BEACON LISTING
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; CHARSET=US-ASCII

IARU BEACON NETWORK

POSTING BEACONS HEARD @ AA1IK Canaan NH.

date of observation

September,15 1997

1500 hrs. UTC

QTH LOCATED AT 43.37.35 N, 72.01.15 W

de AA1IK for the QRP community

SLOT	COUNTRY	CALL SIGN	20 M	17 M	15 M	12 M	10 M
	(Beacon Frequency)		14.1	18.11		21.15	24.93
	28.2						
1	USA (east)	4N1UN	-	-	-	-	-
2	CANADA	VE8AT 1	1	4	-	-	
3	USA (west)	W6WX	1	-	-	-	-
4	HAWAII	KH6WO -	-	-	-	-	
5	NEW ZEALAND	ZL6B	-	-	-	-	-
	(Beacon Frequency)		14.1	18.11		21.15	24.93

28.2

6	AUSTRALIA	VK6RBP	-	-	-	-	-
7	JAPAN	JA2IGY	-	-	-	-	-
8	RUSSIA	OPEN					
9	CHINA	OPEN					
10	SRI LANKA	4S7B	-	-	-	-	-
	(Beacon Frequency)		14.1	18.11	21.15	24.93	

11	SOUTH AFRICA	ZS6DN	4	3	1	-	-
12	KENYA	5Z4B	-	2	4	-	-
13	ISRAEL	4X6TU	-	-	-	-	
14	FINLAND	OH2B	1	-	-	-	-
15	MADEIRA	CS3B	2	1	2	-	-
16	ARGENTINA	LU4AA	4	2	1	-	-
17	PERU	OA4B	4	1	1	-	-
18	VENEZUELA	YV5B		2	3	1	1 -

SPECIAL NOTE

The beacons are precisely timed to transmit every three minutes for ten seconds each so you can get a good idea about the propagation for your location each day at a particular time of day.

This is especially important for QRPers.
As an example: If you hear 5Z4B at the 1 watt level,

you then know that the Kenya area is ripe for a QRP contact.

They also transmit tones at 4 different power levels.
These levels are 100 watts, 10 watts, 1 watt and 100 mw.
This is a lowering of output power by 10 db from the
previous level.

The call sign and the first tone following
the call sign are sent at 100 watts.
Each successive tone is sent at the next lower power level.

In order to save space, a code number
is substituted on this chart. The code is as follows,
4=100 watts, 3=10 watts, 2=1 watt, 1= 100mw
A - means this beacon was not heard on that particular frequency.

The chart assumes that if a 100 mw level is heard,
then all previous levels were also heard. If the
10 watt level was heard then the 100 watt level is
assumed by the chart to have been heard, but not the 1 watt
or 100 mw. level.

In other words, only the lowest level heard, is posted.

The chart shows which beacon levels were heard at AA1IK.
For example.

Slot	Country	Call sign	Freq.	Freq.	Freq.	Freq.
3	USA(west)	W6WX	14.1	18.11	21.15	28.2
		2	1	4	-	

Date: Mon, 15 Sep 1997 12:27:01 -0400 (EDT)

From: ROYGREGSON@aol.com
To: qrp-1@lehigh.edu
Subject: [26788] E-mail !
Message-ID: <970915122358_-163965592@emout06.mail.aol.com>

Hi Gang.....If anyone sent me e-mail Saturday or Sunday, could you please resend.
I had an operator generated computer failure and managed after a few tries to delete my e-mail. nuff said !

Thanks to all 72's/73's Roy

Date: Mon, 15 Sep 97 12:53:21 EDT
From: jeverhar@camden.lmco.com
To: qrp-1@Lehigh.EDU
Cc: jeverhar@camden.lmco.com
Subject: [26789] Another qrp-1'er in print!
Message-ID: <9709151653.AA09103@train11.CAMDEN.LMCO.COM>

Gang,

I got my RF Design magazine today (the mag that Gary Breed used to run) and noticed a familiar name! Our own Chris Trask has a good article on page 46. And the subject is one near and dear to our hearts - the Gilbert cell mixer. That is the structure that forms the basis of the popular NE602.

Chris' article presents info on optimizing the mixer for improved IMD. Alas you gotta build it your self - no way to get inside an ic and modify it without redesigning the whole chip.

Congrats, Chris!

72/73,

Joe E., N2CX

Date: Mon, 15 Sep 1997 10:04:42 -0700
From: Ed Loranger <we6w@qsl.net>
To: ebjr@worldnet.att.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [26790] Re: Transistor "house Numbers"?

Message-ID: <341D6AAA.4F95@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Sandy W5TVW wrote:

<snip>

>

> Anybody out there have any clews?

>

Clews? Sure, available at hardware stores. Most boating supply also have them.

Great for tying off the rigging.

:^() Ha!

-Ed

--

72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)

HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.

QRP-L#1068/ARCI#9397/Norcal#2227/ARS#275/AR#112 grid CM88ok

mailto:we6w@qsl.net <http://www.qsl.net/we6w>

Date: Mon, 15 Sep 1997 12:04:45 -0500
From: Bob Reynolds <breynold@sigg.com>
To: qrp-l@Lehigh.EDU
Subject: [26791] RADIO EXPO 97
Message-ID: <97Sep15.120102cdt.19784@firewall.sigg.com>
Mime-Version: 1.0
Content-Type: text/plain
Content-Disposition: inline

HI QRPers

At RADIO EXPO 97 at the Lake county fairgrounds in NE ILL, I will be giving a talk on QRP Saturday the 27th 9:30 to 10:30 AM. Stop by if you can and heckle the speaker.

73, Red K5VOL

breynold@sigg.com (near Chicago)

Date: Mon, 15 Sep 1997 10:40:13 -0700
From: laura halliday <ve7ldh@direct.ca>
To: qrp-1@Lehigh.EDU
Subject: [26792] DSP boards
Message-ID: <341D72FD.71D8DDE0@direct.ca>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

As a follow-on to Projects for the winter...

Several people have pointed out that the DSP makers all provide evaluation boards of various kinds, consisting of a DSP chip, interface ICs and support circuitry, often at amazing prices. They come with development tools and sample programs.

This is exactly the sort of setup I was planning to use. I noticed the new Analog Devices chips because they caught my eye in a catalogue and I found the specs impressive. But there is an awful lot of code out there for the Motorola and TI chips, and the Prime Directive of software engineering is to never write code when you can swipe it from somebody else. :-)

I've done some interesting DSP things with my PC and its sound card (<http://mypage.direct.ca/v/ve7ldh/wxsat.html>), but either I'm not smart enough to figure it out, or the Linux interface really does make it hard to simultaneously read and write samples.

Some obvious "get acquainted" projects for such an evaluation board include phasing SSB transmitters and receivers, and perhaps a DSP packet modem.

Magic is afoot!

...laura who fears she is outgrowing her hard drive with all these neat toys

Date: Mon, 15 Sep 97 13:46:12 EDT
From: Joel Malman <malman@BBN.COM>
To: qrp-1@lehigh.edu
Cc: malman@BBN.COM
Subject: [26793] QRP-ARCI in my mailbox
Message-ID: <199709151747.NAA174217@nss2.CC.Lehigh.EDU>

Hey folks,

It would seem that many of the QRP-ARCI awards for the past few contests were just mailed out ... I just got THREE of them in the mail today! They look pretty nice (even though they had my name spelled wrong, but the call was correct.) ... It must be very hard to process the logs from all the QRP-ARCI contests!

Thanks, Cam -- these are keepers.

/joel wa1qvm malman@bbn.com Concord, Ma.
QRP-L 337, NORCAL 1884, QRP-ARCI 9305, et al.

Date: Mon, 15 Sep 1997 14:04:21 -0400 (EDT)
From: Scott Bauer <ke3nv@erols.com>
To: qrp-l@Lehigh.EDU
Subject: [26794] MRE's
Message-ID: <199709151804.0AA10799@smtp2.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello,

Im planning for a camping trip to Delaware in a couple of weeks. Got everything ready. Even have an old case of MRE's. I did not notice a date on, or in the MRE itself. This stuff never used to bother me before. I would just eat em and like em. I wonder if these MRE's actually do expire. I know this does not sound QRP related, but I cant operate if I have food poisoning.

Do they expire, huh, do they??

72&73 de Scott Bauer W3CV, Odenton, MD. grid FM19. Formerly KE3NV

" You may be on the right track, but will get run over if you just sit there".... Will Rodgers

visit my web page at <http://www.erols.com/ke3nv/>

G-QRP 8773	QRP-L 728
NORCAL 1094	DL-QRP-AG *GM*
CQC 352	QRP ARCI-8804
scQRPion 38	AR-QRP 27

WARC QRP NUMERO UNO
CW OPERATORS QRP CLUB 484, FISTS, ARRL

Date: Mon, 15 Sep 1997 11:27:03 -0700 (MST)
From: Bob Hightower <ki7mn@dancris.com>
To: ke3nv@erols.com
Cc: qrp-l@lehigh.edu
Subject: [26795] Re: MRE's
Message-ID: <199709151827.LAA04632@dancris.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 02:04 PM 9/15/97 -0400, you wrote:

> Hello,
I wonder if these MRE's actually do
> expire. I know this does not sound QRP related, but I cant
> operate if I have food poisoning.
> Do they expire, huh, do they??
>

How can they expire? They're dead already.

73,
Bob KI7MN (ki7mn@dancris.com) Chandler, AZ
Grid DM43bi Lat 33.334500 Long -111.87260
NorCal #1221 ARCI #8918 Qrp-l #271 CQC #274 AK QRP #30 ARRL
<http://www.dancris.com/~ki7mn>
WIMPS: QS0's=19 30=19 17=0 12=0 States=15/0/0 DX 0/0/0 QSL's=6

Date: Mon, 15 Sep 1997 13:29:42 -0500 (CDT)
From: danjt@ix.netcom.com
To: qrp-l@Lehigh.EDU
Subject: [26796] Inductor Color Code
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hello Gang. A question for all you smart ladies and gentleman out there in Cyber-QRP land . What is the color code for molded rf chokes and inductors. I am assuming it is the same as resistors, but what is the first wide band? Is it for the temperature range? Or

tolerance range? I have looked in all my reference books but not luck. Thanks for the help. GL es 73/72 Dan, N1DT/6.

Date: Mon, 15 Sep 1997 18:32:32 -0400
From: "Rich Dailey, KA8OKH" <ka8okh@som-uky.campus.mci.net>
To: qrp-l@lehigh.edu
Subject: [26797] re: Winter projects
Message-ID: <3.0.16.19970915174636.20d78ace@som-uky.campus.mci.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I have to agree with Brad, wb8ygg... back issues of QST, HR, 73, CQ, SPRAT, QRPp, QQ, whatever, are a great investment. The December issues... the ones with the annual index, are great to look through when hunting for info, or collecting ideas for that next project (not all of them print an annual index).

I'm a sucker for magazines at hamfests. I have a rough idea of the issues needed, and keep an eye peeled for them. They're cheap and informative.

...Rich

Rich Dailey, KA8OKH <ka8okh@som-uky.campus.mci.net>
The KA8OKH / KB4NPI Web - <http://www.qsl.net/ka8okh>

Date: Mon, 15 Sep 1997 18:32:35 -0400
From: "Rich Dailey, KA8OKH" <ka8okh@som-uky.campus.mci.net>
To: qrp-l@Lehigh.EDU
Subject: [26798] re: a few days later...qsl
Message-ID: <3.0.16.19970915182750.20d74d66@som-uky.campus.mci.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

re: n0tu's comments...

It's a disease, isn't it? I heard someone say once that radio contesting is a lot of little accomplishments wrapped up in a weekend... I think the same comment can be applied to QRP, and the hobby in general.

Combine an appreciation of the science, the knowledge of propagation and electron flow, with the art and finesse of a QRP cw qso, and you'll be hooked for the rest of your life... I guarantee it.

It's the kind of enjoyment that you find so hard to describe to others. You can't *force* it on anyone... it just has to happen. Even though we communicate with other amateurs all over the world, it's a solitary thing.

Ok, QRP. I'll be in the Great Smokey mtns for a couple of days. The mailman just delivered my HW-8... life is good.
Listen for me Wed and Thur evenings 7040-7050.

...Rich

Rich Dailey, KA8OKH <ka8okh@som-uky.campus.mci.net>
The KA8OKH / KB4NPI Web - <http://www.qsl.net/ka8okh>

Date: Mon, 15 Sep 1997 12:27:05 -0400
From: "Bob Kellogg" <ae4ic@nr.infi.net>
To: "qrpforum" <qrp-l@Lehigh.EDU>
Subject: [26799] Young hams
Message-ID: <199709151840.0AA18061@mh004.infi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Gang,

Last night I was Net Control Station for the Knightlites QRP net. (Sundays at 0130 UTC, 3.6864 MHz)

The highlight of the evening was check-in from AF4FE, Matt, age 12 and his brother, AF4FF, Mike, age 12! Because of the similarity of their calls and the NCS operators (me) bumbling, I fouled up their checking in, but Matt waited patiently to let me know there were indeed two of them. They are from the Atlanta area, running 5 watts. Judging from their calls, must be recent upgrades. (my brain runs about 5 minutes behind my fist when I'm on

the air, so I failed to ask them all of the things we'd like to know about them)

I don't know how they found out about the Knightlites net, but Matt and Mike handled themselves very well and are a fine addition to our QRP family.

So, Matt and Mike, if you are monitoring QRP-L, welcome to the group. Get on the air whenever you can. There are a lot of us out here who would like to QSO. And, thanks again for your QNI with the Knightlites Net. -- We'll be looking for you next week!

CUL,
Bob Kellogg, AE4IC, Greensboro, NC
Probably, but not necessarily. -- Benny Hill

Date: Mon, 15 Sep 1997 11:52:45 -0700
From: Michael Fletcher <fletch@swlink.net>
To: qrp-l@lehigh.edu
Subject: [26800] Re: MRE's
Message-ID: <103010d01b043323400ac@[204.252.163.137]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

MREs -- survival (?) rations:

Scott,

I'm a retired military member (don't call me sir, I work for a living!), and have consumed (note I didn't say eat) my share of MREs.

MRE is the acronym for "Meals Refused by Ethiopia" and should only really be considered if you can't get the good freeze dried stuff from REI or other backpack supply store.

Seriously, they will sustain you but will not be looked back on as fondly as the older C-Rations which even had an aftermarket cookbook for the gourmet chef among the ranks.

Coffee: Triple caffeine. Great for those late night pile-ups.

Anything with chocolate: mixed with a laxative to keep you regular (same with the older c-ration "John Wayne" chocolate bars). Don't try to mix the chocolate into a drink. It will never mix properly.

Cheese: You can read the package for hours but the cheese and oil will still be separated. But smeared onto the crackers and it will sit like a lead weight in your stomach, killing your appetite for hours.

The rest can be simply dropped into a pot of boiling water and then consumed at your risk.

Hint: take a long-handled spoon with you. The short ones in the rations

never reach far enough into the foil package to keep from getting the stuff all over your hands.

After the trip, write about your experience and shop for the "right stuff" next time.

72,
Mike KL7IXI
Chandler, AZ
Az ScQRPions, QRP-L #1186, AK/QRP #258
.38 Special / Attic Dipole

Date: Mon, 15 Sep 1997 13:08:05 -0600
From: Paul Harden <pharden@aoc.nrao.edu>
To: qrp-l@lehigh.edu
Subject: [26801] New NorCal Kit
Message-ID: <199709151908.NAA03983@zia.aoc.nrao.edu>

What a surprise. Received a prototype of the new NorCal kit in the mail saturday, missing a few of the parts that are on order and not yet received. The reason it was sent to me is so I can do a couple of illustrations and the assembly drawing for the manual.

So what is it? Well, I started typing this post to the group to tell you all, when all of a sudden, these two men-in-black (MIB's) showed up, put on their sunglasses, pulled out this silver thing, and POOF ... big flash of light, and I don't remember a thing about it now. Just hate when that happens.

You will be impressed with it. And like all NorCal club projects, the cost will be far less than say a commercial version, with the same (or better) quality. You WILL want one for your QRP shack. The official release will be at the NorCal QRP forum at PacifiCon Oct. 17-19 in Concord, CA. Doug will be bringing a couple of hundred, he says, for PacifiCon sales to those in attendance. It will also be announced to QRP-L at that time.

While some of us "in the know" are having some fun with the "secret" next NorCal kit, there are a few good reasons for the secrecy. First, Jim Cates is fairly busy right now processing a sudden boom in 38-Special orders due to the article in the last CQ magazine, and not just yet in a position to shift gears to start accepting orders for the \$%@#\$ kit. Besides, the parts are just now dribbling in. Secondly, Doug wants to receive ALL parts before opening up for orders in the event the wrong part(s) arrive at the last minute. Recall this is what happened on the 38-Special, waiting for the crystals to arrive. A

couple hundred kits were sent out before it was realized the wrong crystals were received. Thirdly, some of the metal work involved has not yet been manufactured. Fourth, the instruction manual needs to yet be prepared. Fifth, Doug is currently wrapping up the next issue of QRPp and working on PacifiCon, then start packing up kits and making the manual. Sixth, the next solar cycle is not here yet to properly check it out (bad hint). So there's still a lot of work to do in the next month to get it ready to release. But again, I'm pretty sure you will be impressed with the care that went in to it and the quality of the finished #%\$%@ kit.
Hang in there another 3-4 weeks.

72, Paul NA5N

Proud owner of a \$%#@#! kit with a few missing parts.

POOF POOF (Wish those MIB's would knock it off!)

Date: Mon, 15 Sep 1997 12:15:30 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: jeverhar@camden.lmco.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [26802] Re: Another qrp-l'er in print!
Message-ID: <Pine.BSI.3.96.970915121244.19974B-1000000@usr08.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 15 Sep 1997 jeverhar@camden.lmco.com wrote:

> Gang,
>
> I got my RF Design magazine today (the mag that Gary Breed used to run)
> and noticed a familiar name! Our own Chris Trask has a good article on
> page 46. And the subject is one near and dear to our hearts - the
> Gilbert cell mixer. That is the structure that forms the basis of the
> popular NE602.
>
> Chris' article presents info on optimizing the mixer for improved IMD.
> Alas you gotta build it your self - no way to get inside an ic and
> modify it without redesigning the whole chip.
>
> Congrats, Chris!
>

Thank you. Thought I'd let everyone know that there is an additional paper before the IEEE for MTT-S '98 for a more advanced version

Also, there is a patent in the works for both these and four other versions.

I gotta go.

Regards,

Chris

```

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    / If you understand it, \
   /  then it's obsolete!  \
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      \  ' '
       \  "
        \  ( )
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          | | | | | \ '
           c__; c__; '-.. '> .__

```

Circuit Design for the
RF Impaired

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240
Tempe, Arizona 85285-5240

Technical Editor,
QRP Quarterly
QRP ARCI 9464

Email: ctrask@primenet.com

Graphics by Loek Frederiks

Date: Mon, 15 Sep 1997 12:17:56 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Bob Hightower <ki7mn@dancris.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [26803] Re: MRE's
Message-ID: <Pine.BSI.3.96.970915121706.19974C-1000000@usr08.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 15 Sep 1997, Bob Hightower wrote:

```
> At 02:04 PM 9/15/97 -0400, you wrote:
> > Hello,
> > I wonder if these MRE's actually do
> > expire. I know this does not sound QRP related, but I cant
> > operate if I have food poisoning.
> > Do they expire, huh, do they??
```

> >

>

```
> How can they expire? They're dead already.
```

 $\succ$

Really? I thought they sprouted legs and walked away on their own. Now THAT'S hi-tech!

I gotta go.

Regards,

Chris

[illegible]

Circuit Design for the RF Impaired

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240
Tempe, Arizona 85285-5240

Technical Editor,
QRP Quarterly
QRP ARCI 9464

Email: ctrask@primenet.com

Graphics by Loek Frederiks

Date: Mon, 15 Sep 1997 14:19:40 -0500
From: kreinbd@ccgate.dl.nec.com (David Kreinberg)
To: qrp-1@Lehigh.EDU
Subject: [26804] ARKANSAS NET
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Description: cc:Mail note part

Gang,

Can anyone help with the info for the Monday night net

from Arkansas? I think they meet on 40m and I think it's
on Mondays.

I'd like to join the net tonight, if possible.

73 de Dave NR3E/5
nr Dallas, TX
qrp-1 #25, Winner:1997 Texas QSO Party, QRP
WIMPS: Qs=060 30m=044 17m=11 12m=05 States=027/06/04
DX=03/02/01

Date: Mon, 15 Sep 1997 12:41:34 -0700 (PDT)
From: Jim W7LS <w7ls@brigadoon.com>
To: qrp-1@lehigh.edu
Subject: [26805] MRE: defined
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Can't fool me, guys..... MRE stands for Moldy Rat Entrails
One taste and you'll agree.

0 0

^

* *
* *
* *
*

Yummers!

Jim W7LS

Date: Mon, 15 Sep 1997 12:49:43 -0700
From: Jerry Parker <jparker@fix.net>
To: qrp-1@lehigh.edu
Subject: [26806] New NorCal Kit

Is it a "Digital Velocity Spud Antenna Launcher"?????

Men in black huh?

ps...No Kidding...NorCal has great things in the works and well worth waiting for! Lets have some fun with the guessing game and dont get to serious.

Don't forget that there will be a building contest in conjunction with the open house/hospitality room/QRP Get together Saturday night at Pacificon, Oct. 18th. Several years ago, the folks at Pacificon asked NorCal to sponsor the QRP Forum at Pacificon. The first year we had one, the second year two, last year 6 and we will have 6 more QRP sessions this year. QRP activity at Pacificon has mirrored the explosion of activity that ham radio in general has seen.

1. The project must have been built since last year at Pacificon.
2. Each project will have a 1 page typed explanation sheet about what it is and what it does, please include any special features you have added. Please do not put your call or any other identification on your explanation

sheet.

3. Projects must be QRP related.
4. Three prizes will be awarded.
5. Chuck Adams, K5FO is in charge of judging and the decision of the judges is final. The judges are responsible for duplicate prizes in case of ties. (I still remember Dayton 96 Chuck!!)
6. The contest judging will start at 8 PM at the QRP Open House at Pacificon, Saturday, Oct. 18th.

We would love to see a project from everyone. One of the neat things about QRPers is that they build, they actually do things in ham radio. Bring those projects to Pacificon and share them with the rest of us. Even if you have brought it to a previous meeting, bring it again, as there will lots of new people there who have never seen your work. The Open House runs from 7:00 PM til the last guy gives up. See you there.

Also, there are two demonstrations planned for Saturday night. Chuck Adams and Ron Stark will demonstrate contest operation. They plan to work each other contest style so that the rest of us can pick up some tips. Mike Gipe will do a demo on Surface Mount construction. Come and watch Mike build a surface mount project. You will be amazed at how easy it really is. 72, Doug, KI6DS

Date: Mon, 15 Sep 1997 15:33:28 -0500 (CDT)
From: KG0ZT <pugrad@millcomm.com>
To: "QRP-L --> Post to list" <QRP-L@Lehigh.EDU>
Subject: [26808] Source for: The Complete DXer
Message-ID: <Pine.GS0.3.95.970915152739.25693A-1000000@midas.millcomm.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I've seen a number of references to and praises for a book titled "The Complete DXer" here on the QRP listserv. Can someone point me to a source for obtaining a copy of this book.

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*****
*
* 72 / 73 KG0ZT Dave Cary Rochester, MN
* ARRL VE QRP-L # 979, NorCal # 1714
*
* pugrad@millcomm.com
*
*****
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Date: Mon, 15 Sep 1997 15:54:31 -0400
From: n1pwu@juno.com (Robert K Berlyn)
To: QRP-L@lehigh.edu
Cc: hb_elec@ids.net
Subject: [26809] HB Electronics E-Mail Address change
Message-ID: <19970915.155432.3518.0.N1PWU@juno.com>

Good afternoon every one,

Last week my ISP's E-Mail server went down. They didn't bother to tell me, and it is still down. So HB Electronics has changed E-Mail addresses. The new one is:

hb_elec@ids.net

Please add it to your address books. Ill be changing the web site soon and I will let you know here.

Thanks

Bob Berlyn
HB Electronics

Date: Mon, 15 Sep 1997 14:31:34 -0700
From: Robert Bayha <rbayha@ix.netcom.com>
To: ae4ic@nr.infi.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [26810] Re: Young hams
Message-ID: <341DA935.E9B50231@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bob..... What a great attitude..... Keep it up!!!!!!

Date: Mon, 15 Sep 1997 17:31:19 -0400 (EDT)
From: n4js@amsat.org

To: qrp-1@lehigh.edu
Subject: [26811] Nice Surprise
Message-ID: <XFMail.970915173435.n4js@amsat.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 8bit
MIME-Version: 1.0

Got a very pleasant surprise in tge mail today. A Beautiful certificate from QRP-ARCI, for 1st Place Low band in the Summer Homebrew Sprint. It doesn't say, but it must be 1st in NJ (or in Vineland, or whatever) since I missed over an hour of the Sprint. At any rate, I hadn't expected anything, so it was great after a typical work day, to get a nice surprise. Thanks to Cam and all.

Sent at 17:34:35 on 15-Sep-97

John L. Sielke n4js@amsat.org n4js@pobox.com
n4js@qsl.net NJ Grid:FM29LN
<http://www.qsl.net/n4js> NJ-QRP #57 QRP-L #884
QRP-ARCI #9328 CQC #443 CQrp #50
NE-QRP #507 G-QRP #9544 NorCal #1989 QCWA FISTS #2781 ARS #243
WIMPS Qs=032 30m=29 17m=3 12m=0 States=09/02/00 Countries=16/02/00

Date: Mon, 15 Sep 1997 16:46:50 -0500 (CDT)
From: danjt@ix.netcom.com
To: qrp-1@lehigh.edu
Subject: [26812] Inductor color code info
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Stephan, Thanks for answering my "call" for the color code info. I looked at my ARRL Handbook that I keep on my bench here at work. Lo and behold there was the info I was looking for. I don't know how many times I must have skipped right past that page. DUH!! Anyway thanks again for the info.
GL es 73/72 Dan, N1DT/6

Date: Mon, 15 Sep 1997 18:06:39 -0400
From: Randy Hargenrader <randyh@harksystems.com>
To: qrp-1@Lehigh.EDU
Subject: [26813] chat reflector
Message-ID: <341DB16D.8A7E1396@harksystems.com>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Whats the location for the "chat reflector" thats been posted on qrp-l?
I've got Netscape 4 loaded now and wanted to check it out...
Thanks.

--

73, (Sir)Randy WJ4P
Knightlites

Date: Mon, 15 Sep 97 18:29:30 EDT
From: Joel Malman <malman@BBN.COM>
To: qrp-l@Lehigh.EDU
Cc: malman@BBN.COM
Subject: [26814] My QRP day, so far...
Message-ID: <199709152229.SAA28438@nss2.CC.Lehigh.EDU>

OK Folks,

It has been one heck of a QRP day today!

1. Got my QRP-ARCI certificates
2. Moved the G5RV (in the woods) up about 10 foot
3. Finished the 40m SST (no smoke and actually receives signals)
4. 17 meters is OPEN!

Things yet to do .. maybe by next weekend:

1. Move the G5RV up another 10 foot.
2. Finish the SST alignment

Gees, the QRP hobby can keep you busy....

/joel wa1qvm

Date: Mon, 15 Sep 1997 15:31:13 -0700 (PDT)
From: Bob Okas <vintage@best.com>
To: laura halliday <ve7ldh@direct.ca>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [26815] Re: DSP boards
Message-ID: <Pine.SGI.3.95.970915145649.8331A-1000000@shellx.best.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 15 Sep 1997, laura halliday wrote:

> As a follow-on to Projects for the winter...
>
> Several people have pointed out that the DSP makers all provide
> evaluation boards of various kinds, consisting of a DSP chip,
> interface ICs and support circuitry, often at amazing prices.
> They come with development tools and sample programs.
>
> This is exactly the sort of setup I was planning to use. I
> noticed the new Analog Devices chips because they caught my eye
> in a catalogue and I found the specs impressive. But there is
> an awful lot of code out there for the Motorola and TI chips,
> and the Prime Directive of software engineering is to never write
> code when you can swipe it from somebody else. :-)
>

You know, it's amazing how far PC's have come these days. If you don't mind tying up a big chunk of hardware, you can do all of the fancy DSP processing in the PC. A 200 MHz pentium will easily outrun a TI TMS320C40! With a sound card, you have a very powerful signal analysis tool right there on your desk.

I find TI DSPs a challenge because of their pipelined nature. For those unfamiliar, a pipelined processor doesn't necessarily have the results of an operation available at the start of the next instruction. This leads to a lot of instruction juggling, at the assembly language level, to wring the most performance out of the processor. Writing DSP code in a higher level language like 'C' has its disadvantages also. Some compilers don't produce efficient assembly code. In a worst-case situation, they will pad each instruction with no-ops to make sure the result is available for the next operation. Been there, seen it, hand-optimized the compiler output, then discarded it in favor of hand-written assembly code. Not for the uninitiated!

A low-cost and relatively easy to program DSP evaluation module is the Analog Devices EZ-KIT Lite. It's part number is ADDS-21XX-EZLITE and is available from Hamilton Hallmark for \$89.00 plus shipping. The kit comes complete with the board, serial cable, wall-wart power supply, and Windows-3.1 compatible software. The board has stereo I/O and a 33 MIPS (million instructions per second) 2181 processor. Its instruction set is

programmer-friendly in that there's no pipeline to fuss with. The results are ready at the start of the next instruction. It's programmed in assembly language, though a C compiler is available for additional cost.

I have no connection with Analog Devices. I'm just a satisfied owner/operator.

73,
Bob - W3CD

Date: Mon, 15 Sep 1997 18:54:19 -0400 (EDT)
From: ARDUJENSKI@aol.com
To: qrp-l@lehigh.edu
Subject: [26816] HOW TO CONTEST?
Message-ID: <970915185134_1557579649@emout12.mail.aol.com>

This may be basic but I would like some simple guidelines on how to participate in a CONTEST without tripping all over myself. I am not looking for being a top contender but rather a good participant.

I have read the rules for the QRP afield even this weekend and they seem to indicate what info needs to be transmitted but:

1. Is there a special "call" you put out for this event?
2. Are there any special rules of "good manners" or is it a "free-for-all"? Not only this but all contests.
3. Will the event include the 40M novice band?
4. Is there a good article some place you could refer me to on the subject?

Thanks in advance for your help....Alan KB7MBI

End of QRP-L Digest 849

